User's manual

V. 3.0

Overview

A powerful commercial splitting software module handling with up to 8 areas from the same workstation, no matter if stereo or mono audio.

If you wish, you may place side by side more workstations to increment splitting areas depending on your current needs: 8, 16, 24 commercial splitting areas, and so on.

Splitjay has been carefully engineered on building blocks, so you may purchase just the needed channels and save money on your initial purchase; for example, you may purchase only 2 of the 8 available modules splitting areas. of course, you may always upgrade to 4 or 8 channels should you need it in the future.

Just like Winjay, all audio tracks in the break are of course automatically mixed one after another, no matter if it's a commercial, an audio effects, jingles, etc. Splitjay may also automatically insert an audio effect to separate a commercial from the next one. No more annoying blanks!

Splitjay doesn't make use of relay cards or other dedicated hardware to exchange data with Winjay on-air module: scheduling data, audio tracks, and start/end of split messages all travel on standard Windows network connection.

Splitjay can directly drive most common audio switchers or splitters by meand of simple TTL switching on the PC parallel port.

A powerful caching mechanism automatically transfers commercials on the local workstation if needed, so you don't have to worry if you forgot to manually copy and paste your audio tracks from the on-air module.

Main features:

- Up to 8 commercial splitting areas per workstation, mono or stereo.
- Works with consumer sound cards (Sound Blaster Live/Audigy, Turtle Beach Santa Cruz, etc). Non è necessario acquistare costose schede audio professionali dal costo proibitivo.
- No dedicated hardware
- Full software support for mp3 files: save more than 90% in Hard Disk file storage, without any perceptible quality loss.
- Local caching of audio tracks.

Splitjay: the definitive choice for commercial splitting working side-by-side with Winjay!

Quickstart

Here is a short summary of basic operations for speeding up Splitjay initial setup. For further details we strongly suggest you to carefully read the user's manual!

Before going on, the Windows network should already have been correctly setup and running, and the hard disks on the "on air" workstation (the boot disk and those with audio files) should be shared for network read/write. Moreover, you should install TCP/IP protocol and set IP addresses on each workstation (for example 192.168.1.1 for the on-air PC, 192.168.1.2 for the first production workstation, 192.168.1.3 for the splitting workstation, and so on).

Installing your customized parallel port dongle: Turn off your PC, and insert the supplied hardware key in one of the available parallel (printer) ports. The label engraved on the key should face your PC chassis. Should you need to connect a printer, plug the cable to the opposite (free) side of the key, which will be between your PC and printer. Do not insert the hardware key in the serial interface connector (D-type 25 pins male) since the presence of negative tensions can alter or damage the contents of the key! This should not be an issue with the most recent hardware since serial interfaces use a 9 pins male connector.
If your system is running Windows2000 or XP, you should also per install the parallel dongle driver: just run the "skeyadd" file found in the "\drivers\winNT-2000-XP_lpt" folder in the installation CD.

Installing your customized USB dongle: insert the supplied hardware key in one of the available USB ports. If Windows is already running, the key is automatically detected and you will be asked to locate the path for the driver. Browse the "drivers" folder in the Winjay setup CD, then choose the folder corresponding to your operatine system, for example "win9x-Me-2000-XP_usb" for Windows2000/XP, then follow the on-screen instructions which will guide you until the end of the setup.

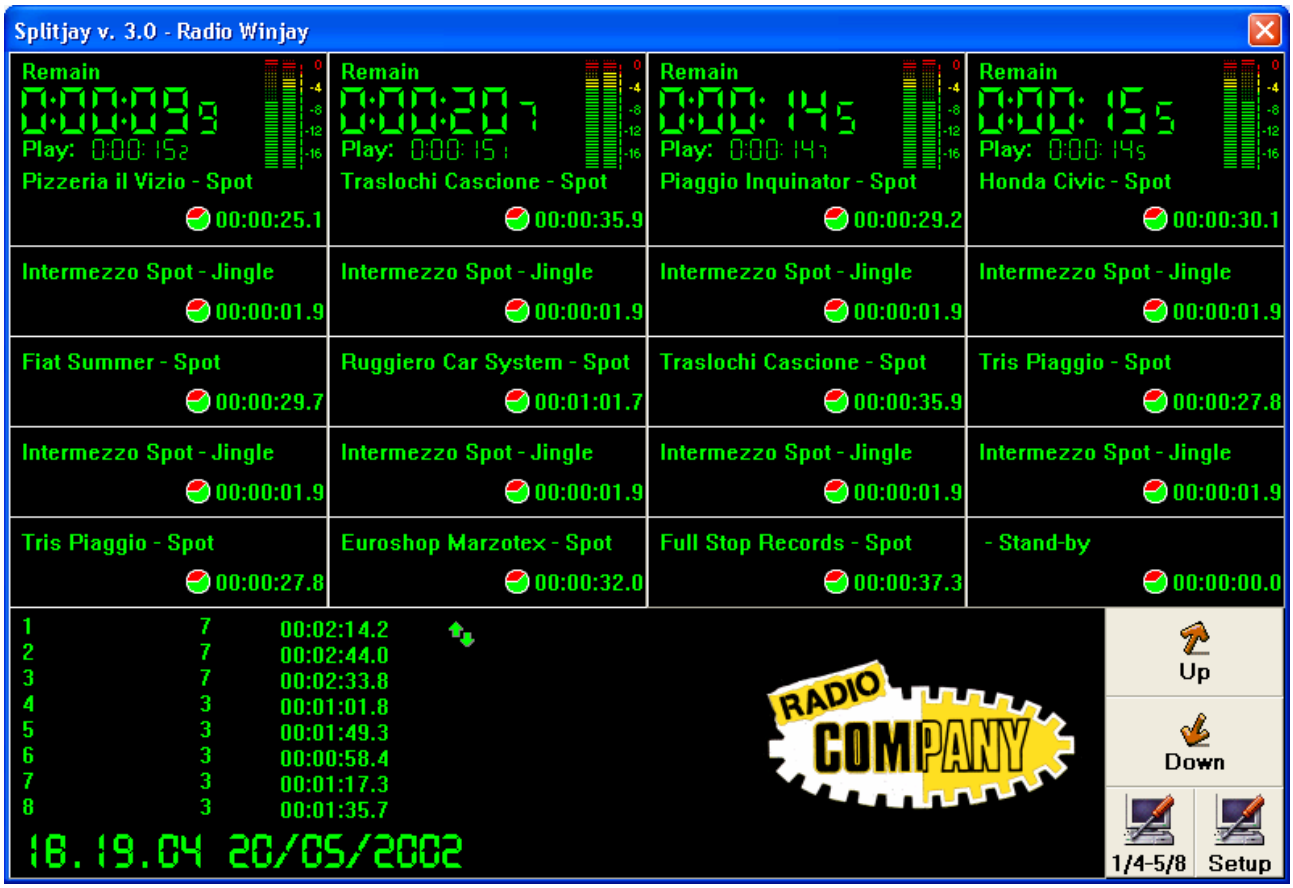
Splitjay setup (on air workstation)

1. Insert the installation CD in your CD-ROM drive.
2. Double click on the setup.exe file in the "splitjay" folder to start Splitjay setup: supposing that your CD-ROM drive is identified as "D:", click on "Start", choose "Run", type in the edit box "d:\splitjay\setup.exe" (without quotations) and click OK.
3. Follow the on-screen guided instructions which will guide you for the rest of the setup process.
4. Copy the wjlogo.bmp file from the main folder of your installation CD to Splitjay installation folder (usually c:\program files\splitjay if you choose the default one). This file is your station logo which is needed for software customization.
5. Click the Exit button to terminate the setup, then click "Start", "Splitjay", "Splitjay" to start Winjay, which should now start without major problems.
6. Click the "setup" button and do your settings as described in the related section of this manual.

Once you're done with setup and initial testing, we strongly suggest you to fine tune your system setup for best performance:

- Disable screen savers and power saving modes: from the Windows desktop, click the mouse right button, select "properties", click on "screen saver" tab, and from the drop-down menu select "none". In the "Screen power saving setup" section, click on "setting" and from the drop down menus "turn down monitor" and "disable hard disks" select "Never".
- Add Splitjay to Windows autostart group, so the software will automatically restart after a power failure.
- In your PC BIOS setup screen, set the "AC Power Loss Restart" (o similar) feature such as your PC turns on again automatically after a power failure.

Chapter 1: the "on Air" window

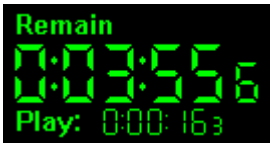


This is Splitjay main window, which shows the status of the software while commercial breaks are broadcasted during commercial split. That's why it is shown on program startup and for the most part of program execution. From top to bottom we find:

- A group of 4 upper displays, which show elapsed and remain time for the audio track currently on the air track.
- Another group of 4 x 4 boxes, each one corresponding to an the item in the play queue for each of the commercial splitting areas shown.
- A bottom display, which shows the list of the splitting areas and the number of audio tracks for each one, the total length of each break, and current date and time. On the right, your station logo is shown.

Detailed description

- **Time displays (upper display)**



Show time remaining to the end of the currently playing track. The display takes into account the user-set mix-out marker for the current track (i.e. the track is crossfaded with the next one when the display shows 0:00:00.0). On the bottom you'll see the track's elapsed time.

- **Vu-meter (bottom display)**

The VU-meters shows in real-time the overall output audio level, which is calculated on the sum of the tracks being played for each commercial split area (for example spot + jingle). Signal is represented as peak level in dBs, where the 0 dB is the absolute maximum before a clipping occurs: in this latter case the "Clip" indicators on the right of each bar will lit. The vu-meter also includes a peak-hold feature: the peak level segments are temporarily left visible before resetting themselves. The bar on the left shows the left channel level, the bar on the right shows the right channel level (if the track has been recorded in stereo mode, of course!).

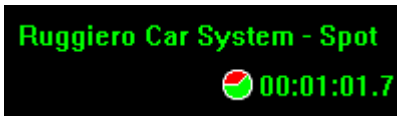
- **Setup button:**

Shows the setup window, which allows to set Splitjay operating defaults. All channels must be in stand-by mode, otherwise the window will not be opened.

- **Area switch button**

Allows to switch the group of area sto show from areas 1-4 to areas 5-8.

- **Box On Air/1/2/3/4**

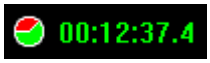


This is a group of 5 boxes for each commercial splitting area, each one corresponding to the on air track and one of the next 4 tracks in the play queue. On the first line is shown the name of the audio track and the type of the track (jingle, commercial, etc.), on the second line the track length.

- **Up/Down buttons**

While the play queue may contain a great number of tracks, only the first 5 ones are shown at the same time (the on air track and the next 4). The Up/Down buttons can shift up and down play queue viewing point if the queue itself contains more than 4 tracks (otherwise they have no effect). Boxes data are automatically updated according to the actual track position in the play queue. Keeping the button pressed an auto-repeat feature is started (i.e. same as clicking the button again and again).

- **Queue length indication (bottom display)**



Shows play queue total length (sum of loaded tracks' lengths).

- **Connection indicator**

During its normal operation, the Splitjay module must connect to Winjay on-air module to exchange data and informations, for example receive the start split commands, read the contents of commercial breaks, or send 'end split' signals at the end of split for each area. At program startup, the two arrows are yellow and blinking, but soon after Splitjay attempts to connect to Winjay on-air module: if the connection is successful, the arrows turn green and stop blinking.
The connection status is periodically checked: if the connection fails (for example if Winjay on-air module is shut down) the arrows turn yellow and start blinking until the connection is restabilished again.

- **Date and time indication (bottom display)**

Shows current date and time.

- **Your radio station logo (bottom display)**

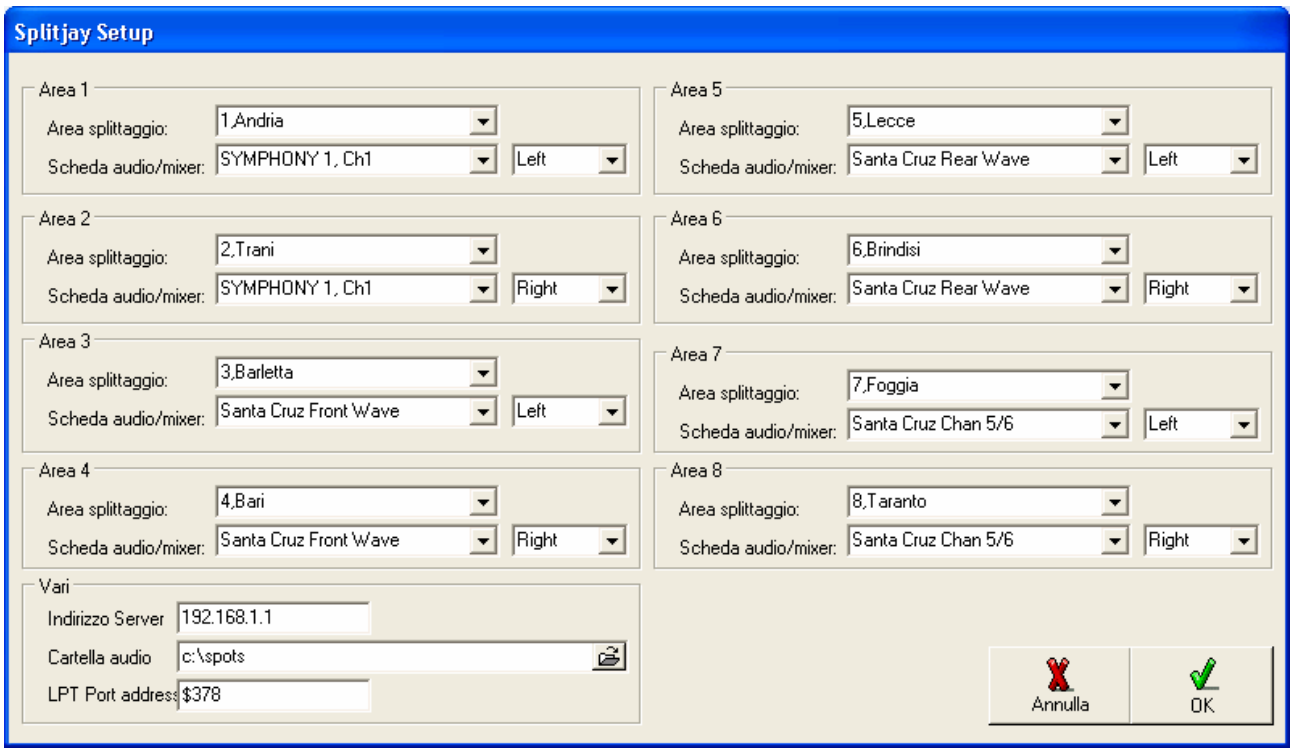
Clicking on the logo a secret panel appears showing some scrolling informations about the software and the current version and "build" number. At the end, your logo appears again automatically.

- **Space bar**

Same as pressing "Play 1" button: starts the first track in the play queue.

Chapter 2: the Setup window

Press the setup button from the main Splitjay screen to enter the setup window shown below:



From this window you may set the sound card and channel to use for each of the commercial splitting areas, other than setting various operating defaults.

Detailed description :

- **Splitting area assignment**

For each of the 8 areas, this box allows to assign the splitting area set in the Winjay database with Splitjay splitting channel: for example, you may assign the area “South Italy” with the channel 2 in Splitjay. Just click on the button on the right of the textbox and make your choice.

- **Sound card/channel**

For each of the 8 splitting areas, this box allows to select the desired sound card and channel assigned to each of the areas. You'll need as much sound cards than your commercial splitting areas. For example, if you wish to use 4 commercial splitting areas, you'll need 4 separate sound cards if you wish to broadcast commercials in stereo mode, or 2 cards if you wish to broadcast in mono. Of course, if your cards feature multichannel outputs, you'll need just one card for more splitting areas: for example, a Turtle Beach Santa Cruz handles 3 areas in stereo, 6 in mono, or 2 in stereo and 2 in mono, or 1 in stereo and 4 in mono. Just click on the button on the right of the textbox to see the list of the installed sound cards; select the desired card and make your choice. You may also select a channel mode for each splitting area:

1) Left: only the left channel of the sound card is assigned to the related splitting area: audio tracks recorded in stereo will be of course played in mono.
2) Stereo: both channels are used for broadcasting in stereo.
3) Right: only the right channel of the sound card is assigned to the related splitting area: audio tracks recorded in stereo will be of course played in mono.

- **Server address box**

Since the Splitjay module needs to connect to Winjay database for reading commercial breaks data, you'll need to specify the IP address of the server where the central database is contained; this is the same workstation where Winjay on-air module is running. Of course, the address should match the one set in the Windows TCP-IP window. Usually, you should use the subnet from 192.168.1.1 (server) to 192.168.1.255 (workstations).

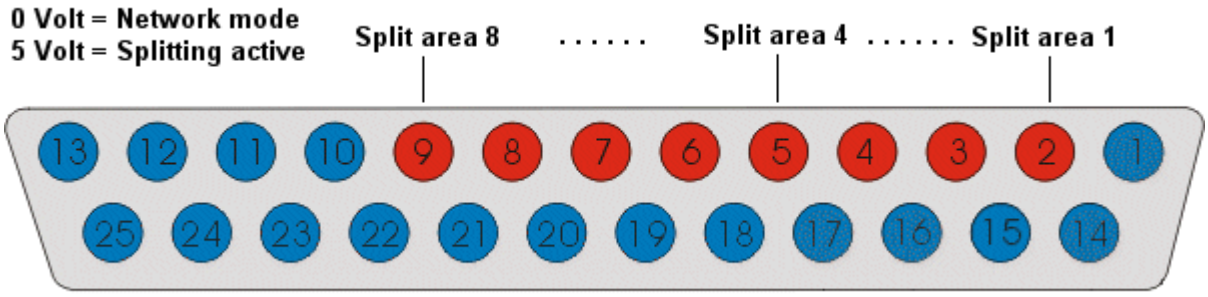
- **Audio folder**

Splitjay features a powerful caching mechanism to automatically copy and paste audio tracks containing your commercials from the on-air PC to the splitting workstation, so you don't have to perform this task manually. Here, you'll have to specify a local folder where Splitjay will cache the audio tracks. Please remember to share your hard disks and, in Winjay setup window, please specify the drive paths as network paths (for example \\onair\c instead of c:).

- **LPT address**

Type here the hex addess of the parallel port used for driving the audio or MPX switcher used to dispatch signals during commercial splitting. For example, $378 for the LPT1, $278 for the LPT2. For each splitting area, a logic level of 0 corresponds to the "network" mode (no splitting active) while the same signal is kept high to 1 (or True, or high) during all the time of the splitting.

TTL signals for each of the splitting areas are available from pin 2 to pin 9 on the parallel port set: pin 2 drives switching for the first commercial splitting area, pin 3 drives the second area, and so on until pin 9 which drives the area 8. Ground is available on pins 18 to 25.


0 Volt = Network mode
5 Volt = Splitting active
Split area 8
. . . . . .
Split area 4
. . . . . .
Split area 1
13 12 11 10 9 8 7 6 5 4 3 2 1
25 24 23 22 21 20 19 18 17 16 15 14

- **Cancel button**

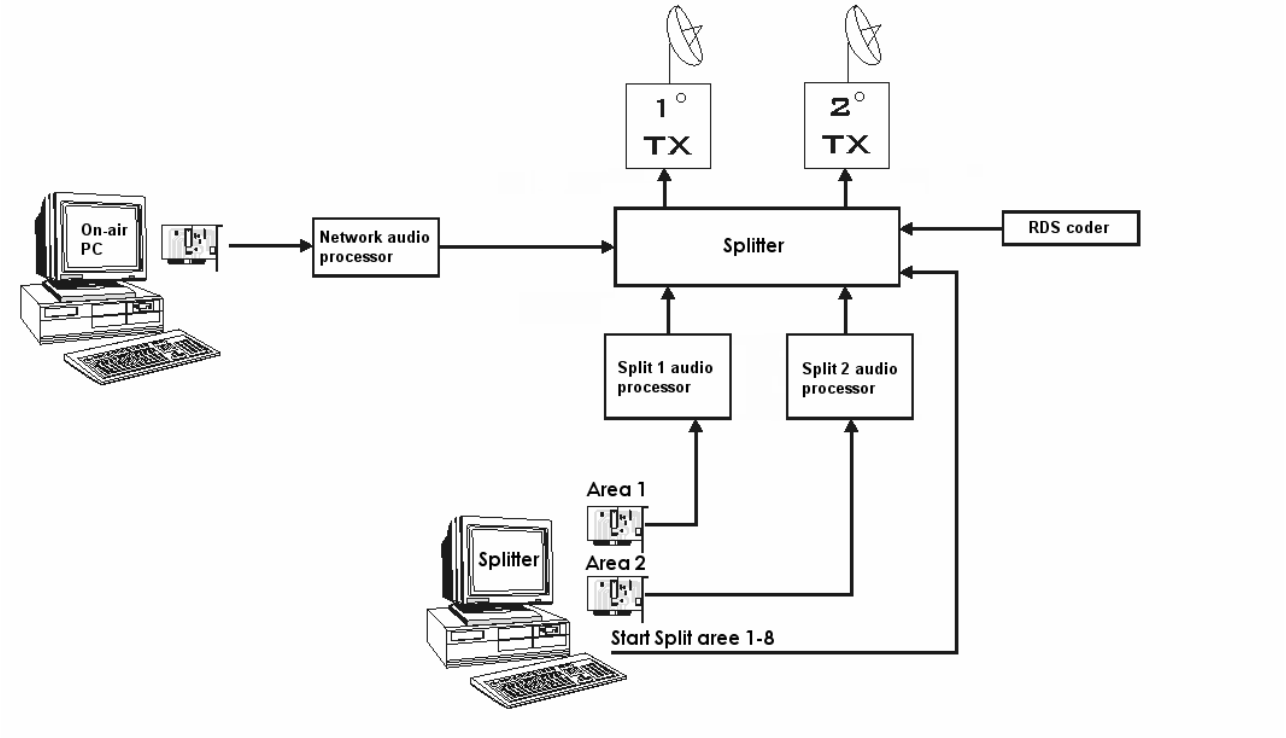
Cancels updates and closes the setup window.

- **OK button**

Confirms updates and closes the setup window.

Chapter 3: how to connect your equipment

Here follows an example of connecting your equipment for splitting commercials to 2 different areas. Of course, details may vary depending on the number of areas and the splitter (switcher) in use.



The “on-air” workstation exchanges data with the “splitter” workstation via the standard Windows LAN.

During normal programming, the splitter works in bypass mode, so that the output of the on-air workstation (or the mixing console) is sent to both transmitters. In splitting mode, the splitter configures itself so that the audio coming from each area of the splitting workstation is sent to each of the transmitters. In the meantime, the on-air workstation just plays a music bed so that, when commercials are over on, let’s say, the first area, the splitter switches the first area to the music bed (network), until commercials are over also for the second area.

The splitter workstation outputs the audio signals for each of the splitting areas as well as the TTL “Start split” signals to drive the switcher between network mode and local split.

In the above example, the splitter in use features a built-in RDS distributor which sends the RDS signal on all the splitting areas; if your splitter does not include such a feature, you should add and external RDS distributor.

Of course, if you wish, we suggest to add an audio processor with stereo coder for each of the areas: otherwise, commercials will be broadcasted in mono mode and without any audio processing.

End user licence agreement

NOTICE TO USER: THIS IS A CONTRACT. PLEASE READ THIS DOCUMENT CAREFULLY BEFORE INSTALLING THIS SOFTWARE. THE INDIVIDUAL OR ENTITY INSTALLING THIS SOFTWARE (THE "END USER") AGREES TO BE BOUND BY THE TERMS OF THIS LICENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, YOU WILL NOT BE ABLE TO USE THE SOFTWARE.

SPLITJAY SOFTWARE END USER LICENCE AGREEMENT
FOR 1 (ONE) COMPUTER

WINJAY S.R.L.
End user licence agreement

The enclosed computer program(s) and the accompanying documentation are provided to the End-User by Winjay S.R.L. ("Licensor") for use only under the following terms. Licensor reserves any right not expressly granted to the End-user. The End-User owns the disk on which the Software is recorded, but Licensor retains ownership of all copies of the Software itself. The End-User assumes sole responsibility for the installation, use and results obtained from use of the Software.

This Winjay S.R.L. End User License Agreement (the "Agreement") accompanies software ("Software") and related explanatory written materials ("Documentation"). The term "Software" shall also include any upgrades, modified versions, updates, additions, and copies of the Software licensed to you by Winjay S.R.L. - Winjay S.R.L. grants to you a nonexclusive license to use the Software and Documentation, provided that you agree to the following:

1. Use of the Software. You may:
- Install the Software in a single location on a hard disk or other storage device of up to the number of computers indicated in the the header at the beginning of this Agreement.
- Provided the Software is configured for network use, install and use the Software on a single file server for use on a single local area network for either (but not both) of the following purposes:
(a) permanent installation onto a hard disk or other storage device of up to the Permitted Number of Computers; or
(b) use of the Software over such network, provided the number of different computers on which the Software is used does not exceed the Permitted Number of Computers. For example, if there are 100 computers connected to the server, with no more than 15 computers ever using the Software concurrently, but the Software will be used on 25 different computers at various times, the Permitted Number of Computers for which you need a license is 25.
- Display, modify, reproduce and distribute any photographs, clip art or other artistic works, in whole or in part, that are included with the Software (unless a specific notice to the contrary is indicated), provided such photographs, clip art or artistic works are not distributed on a stand-alone basis. Such photographs, clip art and artistic works may not be used in the production of lewd, obscene or pornographic material.
- Make one backup copy of the Software, provided your backup copy is not installed or used on any computer.

HOME USE. The primary user of each computer on which the Software is installed or used may also install the Software on one home or portable computer. However, the Software may not be used on the secondary computer by another person at the same time the Software on the primary computer is being used.

2. Copyright. The Software is owned by Winjay S.R.L. and its structure, organization and code are the valuable trade secrets of Winjay S.R.L.. The Software is also protected by United States Copyright Law and International Treaty provisions. You must treat the Software just as you would any other copyrighted material, such as a book. You may not copy the Software or the Documentation, except as set forth in the "Use of the Software" section. Any copies that you are permitted to make pursuant to this Agreement must contain the same copyright and other proprietary notices that appear on or in the Software. Except for font software converted to other formats as permitted in the "Use of the Software" section, you agree not to modify, adapt or translate the Software. You also agree not to reverse engineer, decompile, disassemble or otherwise attempt to discover the source code of the Software. Trademarks shall be used in accordance with accepted trademark practice, including identification of trademark owner's name. Trademarks can only be used to identify printed output produced by the Software. Such use of any trademark does not give you any rights of ownership in that trademark. Except as stated above, this Agreement does not grant you any intellectual property rights in the Software.

3. Transfer. You may not rent, lease, sublicense or lend the Software or Documentation. You may, however, transfer all your rights to use the Software to another person or legal entity provided (1) that you transfer this Agreement, the Software, including all copies, updates and prior versions and all copies of font software converted into other formats, and all Documentation to such person or entity, (2) that you retain no copies, including copies stored on a computer, and (3) that the receiving party accept the terms and conditions of this Agreement.

4. Multiple Environment Software/Multiple Language Software/Dual Media Software/Multiple Copies/Upgrades. If the Software includes, or, in connection with the acquisition of the Software you receive, two or more operating environment versions of the Software (e.g., Macintosh and Windows®), two or more language translation versions of the Software, the same Software on two or more media (e.g., diskettes and a CD-ROM), and/or you otherwise receive two or more copies of the Software, the total aggregate number of computers on which all versions of the Software are used may not exceed the Permitted Number of Computers. You may make one back-up copy, in accordance with the terms of this Agreement, for each version of the Software you use. You may not rent, lease, sublicense, lend or transfer versions or copies of the Software you do not use, or Software contained on any unused media, except as part of the permanent transfer of all Software and Documentation as described above. If you acquire an upgrade or update for Software, you may use the previous version for ninety (90) days after you receive the new version in order to assist you in the transition to the new version, after which time you no longer have a license to use the previous version.

5. Limited Warranty. Winjay S.R.L. warrants to you that the Software will perform substantially in accordance with the Documentation for the ninety (90) day period following your receipt of the Software. To make a warranty claim, you must return the Software to the location where you obtained it along with a copy of your sales receipt within such ninety (90) day period. If the Software does not perform substantially in accordance with the Documentation, the entire and exclusive liability and remedy shall be limited to either, at Winjay S.R.L.'s option, the replacement of the Software or the refund of the license fee you paid for the Software. Winjay S.R.L. AND ITS SUPPLIERS DO NOT AND CANNOT WARRANT THE PERFORMANCE OR RESULTS YOU MAY OBTAIN BY USING THE SOFTWARE OR DOCUMENTATION. THE FOREGOING STATES THE SOLE AND EXCLUSIVE REMEDIES FOR Winjay S.R.L.'S OR ITS SUPPLIERS' BREACH OF WARRANTY. EXCEPT FOR THE FOREGOING LIMITED WARRANTY, Winjay S.R.L. AND ITS SUPPLIERS MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AS TO NONINFRINGEMENT OF THIRD PARTY RIGHTS, MERCHANTABILITY, OR FITNESS FOR ANY PARTICULAR PURPOSE. Some states or jurisdictions do not allow the exclusion of implied warranties or limitations on how long an implied warranty may last, so the above limitations may not apply to you. To the extent permissible, any implied warranties are limited to ninety (90) days. This warranty gives you specific legal rights. You may have other rights which vary from state to state or jurisdiction to jurisdiction.

Should the end user experiences failure of his customized hardware key, Winjay S.R.L. sole responsibility will be the repair or replacement of the "hardware key" which should be returned to Winjay S.R.L. together with a copy of the receipt invoice received when you purchased the software. This warranty is not valid if the malfunction has raised from accident or improper use. In no event the end user may pretend a second "hardware key".

6. Limitation of Liability. IN NO EVENT WILL Winjay S.R.L. OR ITS SUPPLIERS BE LIABLE TO YOU FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES, INCLUDING ANY LOST PROFITS OR LOST SAVINGS, EVEN IF A Winjay S.R.L. REPRESENTATIVE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY THIRD PARTY. SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

7. Governing Law and General Provisions. This Agreement will be governed by the laws in force in Italy excluding the application of its conflicts of law rules. This Agreement will not be governed by the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded. If any part of this Agreement is found void and unenforceable, it will not affect the validity of the balance of the Agreement, which shall remain valid and enforceable according to its terms. You agree that the Software will not be shipped, transferred or exported into any country or used in any manner prohibited by the United States Export Administration Act or any other export laws, restrictions or regulations. This Agreement shall automatically terminate upon failure by you to comply with its terms. This Agreement may only be modified in writing signed by an authorized officer of Winjay S.R.L.

Macintosh is a trademark of Apple Computer, Inc. registered in the U.S. and other countries. Windows is either a registered trademark or a trademark of Microsoft Corporation. Any other trademark belongs to the respective owner.